Amendments to the Claims

1. (Currently amended) An apparatus for cosmetic treatment comprising:

an applicator including at least one positive and one negative electrode for engaging the skin of a patient and applying a pulsed electric field to the skin and the subcutaneous tissues in a predetermined volume of skin and subcutaneous tissue to be treated;

a power supply for generating high voltage pulses <u>of duration in a range of 10 microseconds to 100 milliseconds</u> for applying a pulsed electric field to the skin and subcutaneous tissues, said pulses having a voltage above the upper electroporation limit of subcutaneous fat cells in the treated volume for the predetermined volume; and

a connector connecting said applicator to said power supply.

2. (Original) An apparatus according to claim 1 wherein said applicator includes a plurality of electrodes in an array for applying electric field to the skin and subcutaneous tissues of the patient.

3. (Original) An apparatus according to claim 1 wherein said applicator comprises a pair of forceps including a pair of arms and an electrode mounted on each arm, said arms moveable toward and away from one another.

4. (Original) An apparatus according to claim 1 wherein said applicator comprises a pair of members, a first one of said members including a needle-like electrode and the second of said members including a flat electrode.

5. (Canceled)

6. (Canceled)

7. (Original) An apparatus according to claim 1 wherein the amplitude of the electric field applied to the treated volume falls in a range of 20 Volt/mm to 2000 Volt/mm.

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (New) An apparatus for providing non-invasive cosmetic surgery to a patient by selectively killing fat cells being found in a predetermined volume of the patient's subcutaneous tissue, said apparatus comprising:

an applicator including at least one positive and one negative electrode for engaging the skin of a patient and applying a pulsed electric field to the skin and the subcutaneous tissues in a predetermined volume of skin and subcutaneous tissue to be treated;

a power supply for generating high voltage pulses of a duration of about 10 microseconds to 100 milliseconds, said high voltage pulses having a voltage above the upper electroporation limit of the preselected fat cells as determined by a minimum size of fat cells to be treated, wherein the pulsed electric field has a voltage amplitude sufficient to irreversibly open pores in the membranes of the preselected fat cells thereby causing death thereto; and

a connector connecting said applicator to said power supply,

wherein said power supply provides said high voltage pulses to said applicator via said connector and wherein application of said pulses to said predetermined volume irreversibly opens pores in fat cells having at least the predetermined minimum size and causes their death.

13. (New) An apparatus according to claim 12 wherein said applicator includes a plurality of electrodes in an array for applying electric field to the skin and subcutaneous tissues of the patient.

14. (New) An apparatus according to claim 12 wherein said applicator comprises a pair of forceps including a pair of arms and an electrode mounted on each arm, said arms moveable toward and away from one another.

15. (New) An apparatus according to claim 12 wherein said applicator comprises a pair of members, a first one of said members including a needle-like electrode and the second of said members including a flat electrode.

16. (New) An apparatus according to claim 12 wherein the amplitude of the electric field applied to the treated volume falls in a range of 20 Volt/mm to 2000 Volt/mm.